

# VERAK® KRIO

Industrial cabinet with integrated air-conditioning unit

---



- Modular solution with industrial cabinet and AC cooling units
- Available in 27U / 37U / 42U / 47U height;
- Depth 600 / 800 mm;
- Inside cold and hot air flow managed in a closed loop by the air conditioning unit;
- Cooling capacity from 550W to 5600W for side mounting;
- Cooling capacity from 600W to 2000W for top mounting;
- Other cooling capacities on request;
- Direct installation on the side panel or top mounting, ready to be used in a pre-equipped solution. Does not require any external units;
- Integrated cabinet with IP54 protection.

## TECHNICAL FEATURES

VERAK® KRIO is the solution designed to provide climate control at cabinet level and consists of a cabinet with an air conditioning unit mounted directly on the roof or on the side panel of the cabinet without additional internal space required.

VERAK® KRIO is ideal for indoor applications when is necessary to house IT and electronic equipment in a critical environment without a cooling infrastructure in place. The AC unit uses closed-loop cooling supplying fresh air inside the cabinet and recycling the hot air coming from the electronics devices. The IP rated cabinet provides good protection of the internal cabinet area to maximize cooling efficiency and minimizing contamination from ambient air. The integrated solution provides an IP54 protection rate.

## DIMENSIONS:

Internal Height	27U / 37U / 42U / 47U
Full Height	1312 / 1756 / 1979 / 2201 mm
Depth	678 / 878 mm
Width	600 / 800 mm
Deep mounting	486 / 686 mm
Weight	According to the dimensions

## FINISHING:

External colour	Grey RAL 7035 side panels, panel mount supports, 19" panel mounting angle. Grey RAL 7037 top cover, front and rear doors
Internal colour	Grey RAL 7035

## MATERIALS SPECIFICATIONS:

Frame	Steel 2.0 mm
Panel mounting angles and reducing channels	Steel 2.0 mm
Panel mount supports	Steel 1.5 mm
Side / rear panels	Steel 1.5 mm
Top cover	Steel 1.2 mm
Doors	Steel 1.5 mm
Glass	Tempered 4.0 mm UNI EN1250.1

## STANDARDS:

IEC 60297	Dimension of mechanical structures of the 19" equipment
DIN 41494	Basic specification for 19" construction systems
EN 60950	European safety standards for information technology equipment
VDE0100	Installation and set-up of current system and grounding
DIN-1249-11	Glass building; glass edges

# VERAK® IP

19" stand alone cabinet with IP65 rating



- IP65 certified, enhanced protection against dust and water;
- Cabinet frame formed by 4 verticals and 2 welded end frame (top/bottom);
- Adjustable 19" panel mounting angles at the front and at the rear compliant to IEC60297 norms;
- 19" side reducing cable channel (800 mm cabinet width) for vertical cable management designed to support cable management accessories;
- Easily removable side panels with captive screw fasteners;
- Front framed glass door and single rear metal door, swing handle with manual key lock end 4 points closing system. Metal front door as option;
- Personalized solution with shortened rear door and 5U vented panel, natural or forced, IP54;
- Personalized configuration with air conditioning unit on the top or the side of the enclosure;
- Fully closed bottom and 100 mm plinth optional;
- Adjustable feet;
- Castors with 65 Kg or 115 Kg load rate as optional;
- Static load rate of 1000 Kg uniformly distributed;
- Additional bay version settled for bayed cabinet;
- Designed to mount the earth continuity kit according to EN60950 norms.

## TECHNICAL FEATURES

VERAK® IP is a standalone cabinet extremely robust. The steel frame thickness of 2 mm gives the exceptional strength and rigidity, with a static load capacity of 1000 Kg. The knife-blades that interact with the sealing of the panels to ensure maximum IP sealing are an integral part of the vertical profiles. The doors, available in glass or metal option, are easily reversible (right or left opening) without interfering with the IP sealing. The unique design of the closing mechanism, which includes a seal wedge, ensures the integrity of sealing systems. A swing handle controls a 4-point locking system with central camshaft holding the proper pressure on the seals. The gasket is subjected to a minimum compression that preserves the performance of the sealing system over time, due the repeated opening of the doors. This feature is particularly useful in environments where the cabinet is opened and inspected regularly for routine maintenance. VERAK® IP modern soft-line design, slightly curved styling is equally at home in the office, the communications room or on the factory floor. Its two-tone grey colour scheme is neutral, blending with most modern decors, making VERAK® IP the ideal choice for both heavy industrial, electronics and telecoms applications.

## DIMENSIONS:

Internal Height	27U / 37U / 42U / 47U
Full Height	1312 / 1756 / 1979 / 2201 mm
Width	600 / 800 mm
Depth	678 / 878 mm
Deep mounting	486 / 686 mm (panel mount – panel mount)

## FINISHING:

Colour	Pale Grey RAL 7035: side panels, panel mount supports, 19" panel mounting angle.
	Dust Grey RAL 7037: top cover, front and rear doors
Optional:	Pale Grey RAL 7035: side panels
	Dust Grey RAL 7037: top cover, front and rear doors
	Zinc Plated: , panel mount supports, 19" panel mounting angle.

## MATERIALS SPECIFICATIONS:

Frame	Steel 2.0 mm
Panel mounting angles and reducing channels	Steel 2.0 mm
Panel mount supports	Steel 1.5 mm
Side / rear panels	Steel 1.5 mm
Top cover	Steel 1.2 mm
Doors	Steel 1.5 mm
Glass	Tempered 4.0 mm UNI EN1250.1

## STANDARDS:

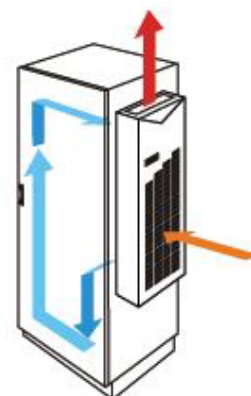
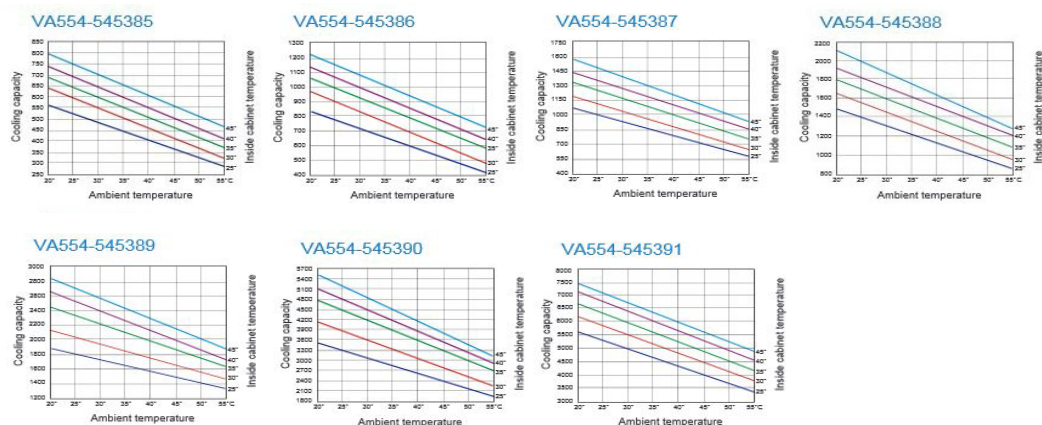
IEC 60297	Dimension of mechanical structures of the 19" equipment
DIN 41494	Basic specification for 19" construction systems
EN 60950	European safety standards for information technology equipment
VDE0100	Installation and set-up of current system and grounding
DIN-1249-11	Glass building; glass edges

## SIDE MOUNTING AIR CONDOTIONER UNIT 550W - 5600W



- Air conditioners for side panel mounting
- Cooling capacity: 550-5600W
- Other options of cooling capacity on request
- Option for the availability for semi-flush mounting
- Electronic board XCB + display
- SEM and SEM2 functions (with accessory)
- Sequencing and Modbus (with accessories)
- Condensate dissipating device from 1100W
- Quick connections (CE version)
- µchannel condenser (from 1100W)
- General Alarm contacts and remote control as standard

### PERFORMANCE:



### TECHNICAL FEATURES:

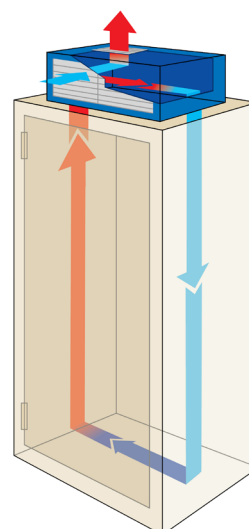
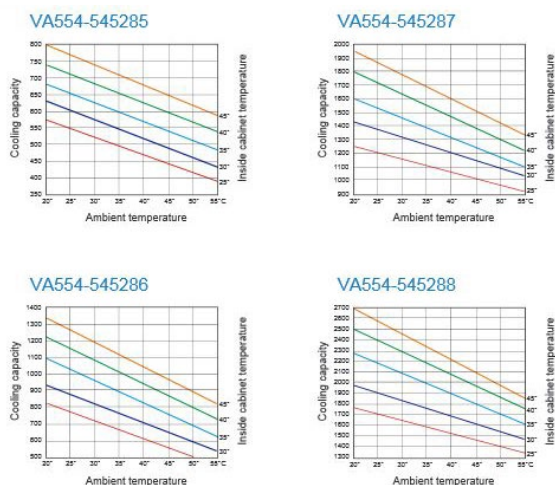
CODE	M.U.	VA554-545385	VA554-545386	VA554-545387	VA554-545388	VA554-545389	VA554-545390	VA554-545391
Power supply	V-ph-Hz	230-1-50/60	230-1-50/60	230-1-50/60	230-1-50/60	230-1-50/60	230-1-50/60	400-3-50/460-3-60
Cooling capacity L35L35 DIN3168	W	550 - 580	850 - 900	1100 - 1150	1500 - 1600	2100 - 2200	4000 - 4100	5600 - 5950
Cooling capacity L35L50 DIN3168	W	410 - 430	620 - 700	840 - 890	1200 - 1280	1750 - 1850	3000 - 3300	4550 - 4850
Height / Widht / Depth	mm	642x313x223	642x313x223	912x410x248	912x410x248	1005x409x263	1217x511x347	1405x554x404
Max running current	A	1,3 / 1,5	2,6 / 2,7	3,1 / 3,4	3,9 / 4,3	4,8 / 5,5	8,2 / 9,4	4,2 / 5,7
Starting current	A	15	20	18	28	34	42	53
Pre-Fuse T	A	4	6	6	8	10	16	10
Power consumption L35L50 DIN3168	W	310 - 340	420 - 600	510 - 650	750 - 825	1120 - 1240	1730 - 1950	2670 - 3600
Side cabinet fan flow, free blowing	m3/h	164 - 195	340 - 356	540 - 580	540 - 580	540 - 580	1180 - 1300	1500 - 1600
Regulation Temperature limits	°C	+25 / +45	+25 / +45	+25 / +45	+25 / +45	+25 / +45	+25 / +45	+25 / +45
Side ambient Temperature limits	°C	+20 / +55	+20 / +55	+20 / +55	+20 / +55	+20 / +55	+20 / +55	+20 / +55
Side cabinet protection degree	IP/Type	54 / -	54 / -	54 / -	54 / -	54 / -	54 / -	54 / -
Noise level	dB(A)	61	64	65	65	69	70	73,5
Weight	Kg	23	27	44	46	48	80	100

## TOP MOUNTING AIR CONDITIONER UNIT 600W - 2000W



- Top mounting air conditioner
- Self Cleaning Condenser
- Hydrophilic evaporator
- 4 sizes
- Cooling Capacity: 600 - 2000W
- Other options of cooling capacity on request
- Condensate dissipating device from 1400W
- Quick connections
- Digital Thermostat ECB

### PERFORMANCE:



### TECHNICAL FEATURES:

CODE	M.U.	VA554-545285	VA554-545286	VA554-545287	VA554-545288
Power supply	V-ph-Hz	230-1-50/60	230-1-50/60	230-1-50/60	230-1-50/60
Cooling capacity L35L35 DIN3168	W	600	900	1400	2000
Cooling capacity L35L50 DIN3168	W	510	760	1170	1700
Height / Widht / Depth	mm	335x600x325	335x600x325	450x600x400	450x600x400
Max running current	A	2,2	3,2	5,2	5,7
Starting current	A	16	15	17	22
Pre-Fuse T	A	4	6	8	8
Power consumption L35L50 DIN3168	W	411	630	950	1200
Side cabinet fan flow, free blowing	m3/h	575	575	575	860
Regulation Temperature limits	°C	25 - 45	25 - 45	25 - 45	25 - 45
Side ambient Temperature limits	°C	20 - 55	20 - 55	20 - 55	20 - 55
Side cabinet protection degree	IP/Type	54	54	54	54
Noise level	dB(A)	63	67	58	62
Weight	Kg	29,5	31,5	48	51,5